

RODIONOV, N. S., Candidate Tech Sci (diss) -- "Investigation of the conditions for the useful application of small-dimension bore holes in horizontal prospecting work". Moscow, 1959. 16 pp (Min Higher Educ USSR, Moscow Geological-Prospecting Inst im S. Ordzhonikidze), 110 copies (KL, No 25, 1959, 135)

RODIONOV, N.S.

Results of small hole drilling. Trudy MGRI 34:63-69 '59.  
(MIRA 13:12)  
(Boring)

GALYBIN, N.A.; RODIONOV, N.S.; TSVETKOV, B.I., inzhener; KOLOTUSHKIN, V.I.,  
redaktor; BORISOV, A.S., tekhnicheskiy redaktor

[Concise manual on peat winning and the technology of briquetting]  
Kratkoe rukovodstvo po dobyche torfa i tekhnologii briketirovaniia.  
Moskva, Gos. izd-vo mestnoi promyshl. RSFSR, 1956. 258 p. (MIRA 10:1)  
(Peat) (Briquets (Fuel))

AUTHOR: Rodionov, N.S. SOV-132-58-9-6/18

TITLE: Some Results of the Experimental Drilling of Blast-Holes With Bits of a Reduced Diameter (O nekotorykh rezul'tatakh opytnykh rabot pri burenii shpurov koronkami umen'shennogo diametra)

PERIODICAL: Razvedka i okhrana nedr, 1958, Nr 9, pp 22-25 (USSR)

ABSTRACT: MGRI carried out experimental drillings of blast-holes with the perforators PA-23, PM-508 and T-10C (the last one of the Finnish firm "Tampella") to determine the influence of the characteristic properties (Table 1) of these perforators and of the diameter of the blast-holes on their drilling speed. From the study of 400 drilling operations it was found (Table 2) that this speed depends on the diameter of blast-holes and on the power of the perforators. A detailed description of the experiments is given. The drilling speed of the PA-23 and PM-508 perforators varies by 4 - 13% at blast-hole diameters of 25 - 31 mm and by 15 - 63% at diameters of 40 - 45 mm. The drilling speed of PA-23 and T-10C perforators increases by 77 - 194% with an increase in the diameter of the drilling bit from 25 to 45 mm. The comparison of the results shows that high speed with increased

Card 1/2

SOV-132-58-9-6/18

Some Results of the Experimental Drilling of Blast-Holes With Bits of a Reduced Diameter

rotation gives the best results for drilling blast-holes with diameters from 25 to 45 mm. The drilling speed of the T-10C perforator is 1.7 to 2.9 times greater than that of the other two perforators. The author recommends the production of special small diameter drilling bits, and of smaller charges of explosives, which will permit the drilling of blast-holes with diameter of 31 - 25 mm. There are 2 tables, 1 photo, and 2 graphs.

ASSOCIATION: MGRI

1. Drilling machines--Test results

Card 2/2

RONJON A. T. 0.7.

Study of karst in the mass construction of small reservoirs.  
(NIRA 18-9)  
Prudy MO17 15:94-98 '63.

GVOZDETSKIY, N.A., doktor geogr. nauk, otv. red.; SOKOLOV, N.I., doktor geol.-min.nauk, otv. red. [deceased]; POPOV, I.V., doktor geol.-min. nauk, prof., red.; BOGOMOLOV, G.V., akademik, red.; RODINOV, N.V., kand. geol.-min. nauk, red.; SOKOLOV, D.S., doktor geol.-min. nauk, red.; PERVAKOV, I.L., red,izd-va;

[Survey of the state of karst studies in the U.S.S.R. and abroad] Obshchie voprosy karstovedeniia; materialy. Moskva, Izd-vo Akad. nauk SSSR, 1962. 246 p. (MIRA 15:3)

1. Nauchnoye soveshchaniye po izucheniyu karsta. 3d, Moscow, 1956.
2. Akademiya nauk Belorusskoy SSR (for Bogomolov).
3. Moskovskiy Gosudarstvennyy universitet (for Gvozdetskiy).  
(Karst--Congresses)

MASLOV, Nikolay Nikolayevich, prof., doktor tekhn.nauk; PIL'GUNOVA,  
Zoya Vasil'yevna, kand. geol.-mineral.nauk; RODIONOV, N.V.,  
red.; BORUNOV, N.I., tekhn.red.

[Dams of North Africa; from the design and construction  
practice] Plotiny Severnoi Afriki; iz praktiki proektirovaniia  
i stroitel'stva. Moskva, Gos.energ.izd-vo, 1960. 133 p.  
(MIRA 13:5)

(Africa, North--Dams)

RODIONOV, Nikolay Vasil'yevich; SOKOLOV, D.S., red.; VLASOVA, L.V., red.izd-va;  
SHMAKOVA, T.M., tekhn.red.

[Karst in the European part of the U.S.S.R., Ural Mountains and  
Caucasus] Karst Evropeiskoi chasti SSSR, Urala i Kavkaza. Moskva,  
Gosgeoltekhnizdat, 1963. 173 p. (Moscow. Vsesoiuznyi nauchno-  
issledovatel'skii institut gidrogeologii i inzhenernoi geologii.  
Trudy, no.13). (MIRA 17:3)

RODIONOV, Nikolay Vasil'yevich; OVCHINNIKOVA, S.V., red.izd-va; PEN'KOVA,  
S.A., tel'm.red.

[Engineering geology research in karst regions for building small  
reservoirs and public and industrial structures] Inzhenerno-  
geologicheskie issledovaniia v karstovykh raionakh pri ustroistve  
malykh vodoemov, grazhdanskom i promyshlennom stroitel'stve.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr,  
1958. 183 p. (MIRA 12:2)

(Karst)

POPOV, Ivan Vasil'yevich; RODIONOV, N.V., red.; YERMAKOV, M.S.,  
tekhn.red.

[Engineering geology] Inzhenernaja geologija. Izd.2., perer.  
1 dop. Moskva, Izd-vo Mosk.univ., 1959. 509 p. (MIRA 12:8)  
(Engineering geology)

SKVORTSOV, G.G., starshiy nauchnyy sotr.; ROMANOVSKAYA, L.I.,  
mladshiy nauchnyy sotr.; Prinimal uchastiye ZOTOV, N.V.,  
inzh.; RODIONOV, N.V., nauchnyy red.; GRISHINA, T.S., red.  
izd-va; BYKOVA, V.V., tekhn. red.

[Engineering geology prognoses of the conditions of the  
development of solid mineral deposits; methodological  
instructions] Inzhenerno-geologicheskie prognozy uslovii  
razrabotki mestorozhdenii tverdykh poleznykh iskopаемых;  
metodicheskie ukazaniia. Moskva, osgeoltekhizdat, 1961. 82 p.  
(MIRA 15:7)

(Engineering geology)  
(Mines and mineral resources)

LEVIN, Sergey Vasil'yevich; RODIONOV, N.V., nauchn.red.

[Soil mechanics] Mekhanika gruntov. Moskva, Nedra,  
(MIRA 17:12)  
1964. 162 p.

RODIONOV, N.V.

Method of mapping karst regions for the purposes of engineering  
geology and hydrogeology. Nov.kar.i spel. no.2:76-79 '61.  
(MIRA 15:9)

(Karst--Maps)

RODIONOV, N.V.

Map of karst rocks and karst phenomena of the European part of the  
U.S.S.R., the Urals, and the Caucasus made on a 1:2,500,000 scale.  
Nov.kar.i spel. №.3:19-24 '63. (MIRA 16:10)

POPOV, I.V., doktor geol. min. nauk, prof, red.; BOGOMOLOV, G.V., akademik, red.; GVOZDETSKIY, N.A., doktor geogr. nauk, prof., red.; RODIONOV, N.V., kand. geol.-min. nauk, red.; SOKOLOV, D.S., doktor geol.-min. nauk, red.; NIKOLAYEV, N.I., doktor geol.-min.nauk, prof., red.; SOKOLOV, N.I., doktor geol.-min. nauk, prof., red.; VERTEL'NIK, I.P., red.; MA-TH; SUSHCHUKA, L.A., tekhn. red.; OGLUB', S.P., tekhn. red.

[Special problems of the study of karst; its hydrogeology, hydrology, geochemistry, engineering geology, and minerals]  
Spetsial'nye voprosy karstovedeniia; gidrogeologija, hidrologija, geokhimiia, inzhenernaia geologija i poleznye iskopayemye. Doklady, Moskva, Izd-vo Akad. nauk SSSR, 1962. 182 p.  
(MIRA 15:12)

1. Nauchnoye soveshchaniye po izucheniyu karsta. 3d, Moscow, 1956. 2. Akademiya nauk Belorusskoy SSR (for Bogomolov).  
(Karst)

ZOLOTAREV, G.S., red.; SOKOLOV, D.S., red.; CHAPOVSKIY, Ye.G., red.;  
BINDEMAN, N.N., red.; LYKOSHIN, A.G., red.; TITOV, N.A., red.;  
GARMONOV, I.V., retsenzent; PRIKLONSKIY, V.A., retsenzent;  
POPOV, I.V., retsenzent; RODIONOV, N.V., retsenzent; KHAKIMOV,  
V.Z., red.; YERMAKOV, M.S.. tekhn.red.

[Methods and results in the study of hydrogeological and  
engineering geological conditions of large reservoirs] Opyt  
i metodika izuchenija hidrogeologicheskikh i inzhenerno-geo-  
logicheskikh usloviij krupnykh vodokhranilishch. Pod red. G.S.  
Zolotareva, D.S. Sokolova i E.G. Chapovskogo. Moskva, Izd-vo Mosk.  
univ. Pt.1. 1959. 175 p. diagrs. maps.

(MIRA 14:4)

(Volga Valley--Reservoirs) (Engineering geology)

ADDISON, E. J.

Want to know about changes in aspects of the Central Black Earth Region and I am particularly interested in the whole of studying it. Yes.  
Hydrogeol. Environ. Sci. No. 16:1993 1ko. (MIRE 12:11)  
(Central Black Earth Region-- Karst)

PRIKLONSKIY, V.A., doktor geologo-mineralogicheskikh nauk; GOR'KOVA, I.M.  
OKNINA, N.A.; REUTOVA, N.S.; CHEPIK, V.F.; RODIONOV, N.V., redaktor  
izdatel'stva; POLYAKOVA, T.V., tekhnicheskiy redaktor.

[Engineering geology characteristics of Khvalynian clays in relation  
to their formation (exemplified by some trans-Volga regions] Inzhenerno-  
geologicheskie osobennosti Khvalynskikh glinistykh porod v sviazi  
s usloviami ikh formirovaniya (na primere nekotorykh raionov Zavolzh'ia).  
Moskva, Izd-vo Akademii nauk SSSR 1956. 152 p. (Akademija nauk SSSR.  
Laboratoriia gidrogeologicheskikh problem, Trudy vol.13) (MLRA 10:3)  
(Clay)

Rodionov, N. I.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry, D

Abst Journal: Referat Zhur. - Khimiya, No 19, 1956, 61358

Author: Semikhatov, A. N., Dukhanina, V. I., Nelyubov, L. P., Rodionov,  
N. V., Garmainov, E. V., Tolstoy, M. P., Syrovashina, Ya. A.,  
et al

Institution: None

Title: Map of Ground Waters of European Portion of USSR on a 1:1,500,000  
Scale with Explanatory Notes

Original

Periodical: Sb. nauch.-tekhn. inform. M-vo geol. i okhrany nadr, 1955, No 1,  
51-57

Abstract: The compiled map of ground waters of European portion of USSR made  
it possible to render more precise the distribution of waters of  
different type according to their chemical composition and mineral-  
ization. Limits of mineralization vary within a range from 40-60  
to 190,000 mg/l. Revealed are areas of higher K-content in spring  
and borehole water which makes it possible to undertake exploratory

Card 1/2

USSR/Cosmochemistry - Geochemistry. Hydrochemistry, D

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61358

Abstract: work for K in underground waters of subsaltbearing beds of Lower Cambrian deposits.

Card 2/2

RODIONOV, N.V.

Conference on karst. Razved.i okh.nedr 22 no.10:54-57 0 '56.  
(MLRA 9:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut giirogeologii  
i inzhenernoy geologii.  
(Karst)

Dolomite sands. N. V. Rodionov. Trudy Lab. Min. i. Geol. Problem im. F. P. Savchenkova, Akad. Nauk S.S.R., 6, 148-71 (1949).—The occurrence of dolomite sands or powders is important for the engineering problems of dam construction, the permeability of which for underground waters is highly detd. by the porous state of these loose materials. The dolomite sands (often also called dolomite ashes) are weathering products of Permian and Upper Carbonian dolomites and dolomitic limestones; they occur in lenses or concretions amidst the solid rocks, occasionally on tectonic cracks and in cavities. The chem. compn. is dolomite 87-99, calcite 0-13, and free magnesite up to 0.7% and 0.25 mm.; they are nonplastic, sometimes compacted or even cemented with a higher mech. strength. The  $H_2O$  content varies between 2.2 and 28%; the aggregate d. is 1.48-2.03, the true d. 2.81-2.91, the porosity 33-54%. The coeff. of compaction under a pressure of 6 kg./sq. cm. is 0-0.014, under a load of 12 kg./sq. cm. 0.001-0.008. The friction coeff. is 0.94-1.10, the angle of friction  $43^\circ$ - $47^\circ$ . in moist condition, nearly  $0^\circ$  in the dry state. In mining, the stability of the loose material is satisfactory if sufficiently compacted by moisture. The character of the soln. highly depends on the chem. compn. of the leaching waters. With 1 mg./l.  $CO_2$  content, the corrosive waters easily leach 200 mg./l. of carbonates in the initial period of filtration, but after some time the amt. of dissolved  $RCO_3$  is decreased to about 30 mg./l. The high initial amt. of dissolved  $RCO_3$  is explained by the presence of satd. solns. in the powder with its natural moisture content. Twenty-six complete chem. analyses of typical dolomite sands are given; the  $RCO_3$  contents vary between 0 and 0.6%, the invol. in  $CaCO_3$  between 0.2 and 2.0%. Extensive tables are given for the granulometric compn., and the coeffs. of nonuniformity of grain sizes detd., varying between 2.1 and 20.0. The chem. compns. of the filtration samples after leaching are also tabulated. W. Kitel

30807. RODIONOV, N. V.

O metodike izucheniya fiziko-tehnicheskikh svoystv peschachanykh gruntov s  
estestvennoy strukturoy. Voprosy gidrogeologii i inzh. geologii, sb. 12, 1949,  
s. 67-73.

Some regularities observable in connection with caves on carbonate rocks.

p. 313.

A paper found in the symposium "Works of the Laboratory of hydrogeological Problems [sic] V. P. Savchenko", Vol. III (1948), Moscow-Leningrad.

Rodionov, N. V.

Rodionov, N. V. "Certain rules for karst in carbonate rocks", Trudy Laboratorii hidrogeol. problem im. V. V. Savchenkogo ( Akad. nauk SSSR, Otd-niye geol.-geogr. nauk), Vol. III, 1943, p. 343-47, - Biblio: 6 times.

SO: U-2848, 12 Feb. 63, (Letopis' Zhurnal 'nykh Statet, No. 2, 1949).

RODIONOV, N.V.

Some regularities of karst formations in lime deposits. Trudy Lab. Gidro-  
geol. Problem im. F.P. Savarenskogo, Akad. Nauk S.S.R. 3, 343-7 '48.  
(CA 47 no.19:9870 '53) (MLRA 3:2)

1. RODIONOV, N. V.
2. USSR (600)
4. Karst.
7. Some data on the rate of development of karst in carbonate--containing rocks.  
Trudy Lab. hidrogeol. prob. 6(49)
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

1. PODIONOV, N. V.
2. USSR (600 )
4. Dolomite
7. Study of pulverulent dolomite, Trudy Lab. gidrogeol. probli., No. 6, 1949.
9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

POPOV, V.N., glav. red.; MAKKAVEYEV, A.A., zam. glav. red.; PAVLOV, B.S., red.; RODIONOV, N.V., red.; SHCHERBAKOV, A.V., red.; NEMANOVA, G.F., red.izd-va; SHMAKOVA, T.M., tekhn. red.

[Methodological handbook for making hydrogeological surveys on 1:50,000 and 1:25,000 scales] Metodicheskoe rukovodstvo po proizvodstvu gidrogeologicheskoi s"emki v masshtabakh 1:50,000 i 25,000. Moskva, Gosgeoltekhnizdat, 1962. 370 p. (MIRA 16:3)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut hidrogeologii i inzhenernoy geologii.  
(Water, Underground--Maps)

ZOLOTAREV, G.S., red.; SOKOLOV, D.S., red.; CHAPOVSKIY, Ye.G., red.; GAR-MANOV, I.V., retsenzent; PRIKLONSKIY, V.A., retsenzent [deceased]; POPOV, I.V., retsenzent; RODIONOV, N.V., retsenzent; TITOV, N.A., nauchnyy red.; FILIPPOVA, B.S., red.; BINDEMAN, N.N., red.; LYKOSHIN, A.G., red.; YERMAKOV, M.S., tekhn. red.

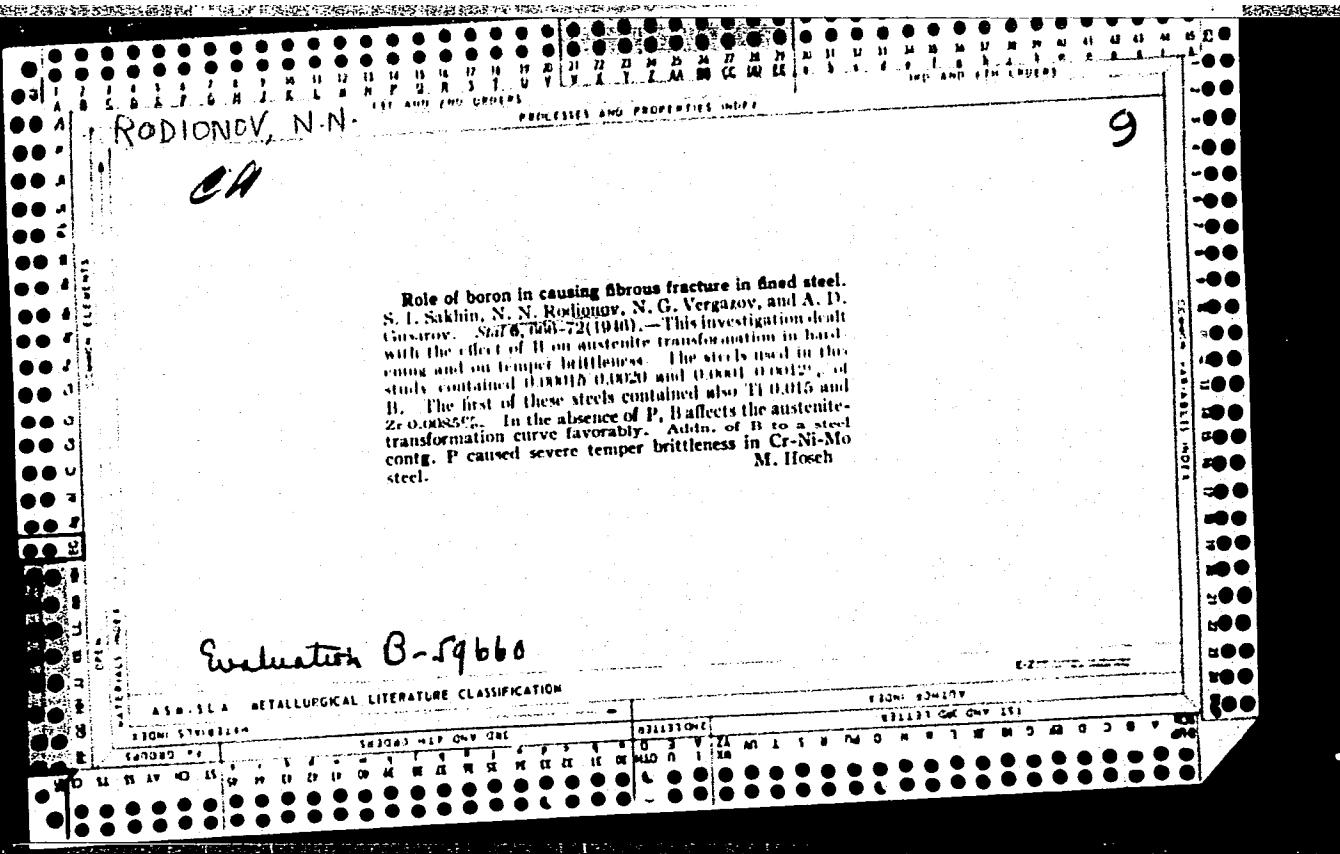
[Results achieved and methods used in studying hydrogeological and engineering geological conditions of large reservoirs] Opyt i metodika izuchenija hidrogeologicheskikh i inzhenerno-geologicheskikh uslovij krupnykh vodokhranilishch. Pod red. G.S.Zolotareva, D.S. Sokolova i E.G.Chapovskogo. Moskva, Izd-vo Mosk. univ. Pts.2 and 3. 1961. 360' p. diagrs, maps. (MIRA 14:8) (Engineering geology)  
(Reservoirs)

RODIONOV, N. V., Cand Med Sci -- (diss) "Pulmonary pattern in the X-ray image in various periods of treatment of acute and chronic nonspecific pneumonia." Leningrad, 1960. 14 pp; (Leningrad State Order of Lenin Inst for the Advanced Training of Physicians im S. M. Kirov); 350 copies; price not given; (KL, 50-60)<sup>2</sup> 136)

RODIONOV, N.V.

MASLOV, Nikolay Nikolayevich, doktor tekhnicheskikh nauk, professor;  
RODIONOV, N.V., kandidat geol-mineral. nauk, redaktor; POLIVANOV, S.I.,  
redaktor izdatel'stva; GOLUBENKOVA, L.A., redaktor izdatel'stva;  
TOKER, A.M., tekhnicheskiy redaktor; ELKINA, E.M., tekhnicheskiy  
redaktor.

[Engineering geology] Inzhenernaia geologija. Moskva, Gos.izd-vo lit-ry  
po stroit.i arkhit., 1957. 408 p. (MIRA 10:11)  
(Engineering geology)



SMIRNOV, V.A., kand. tekhn. nauk; RODIONOV, O.G., inzh.

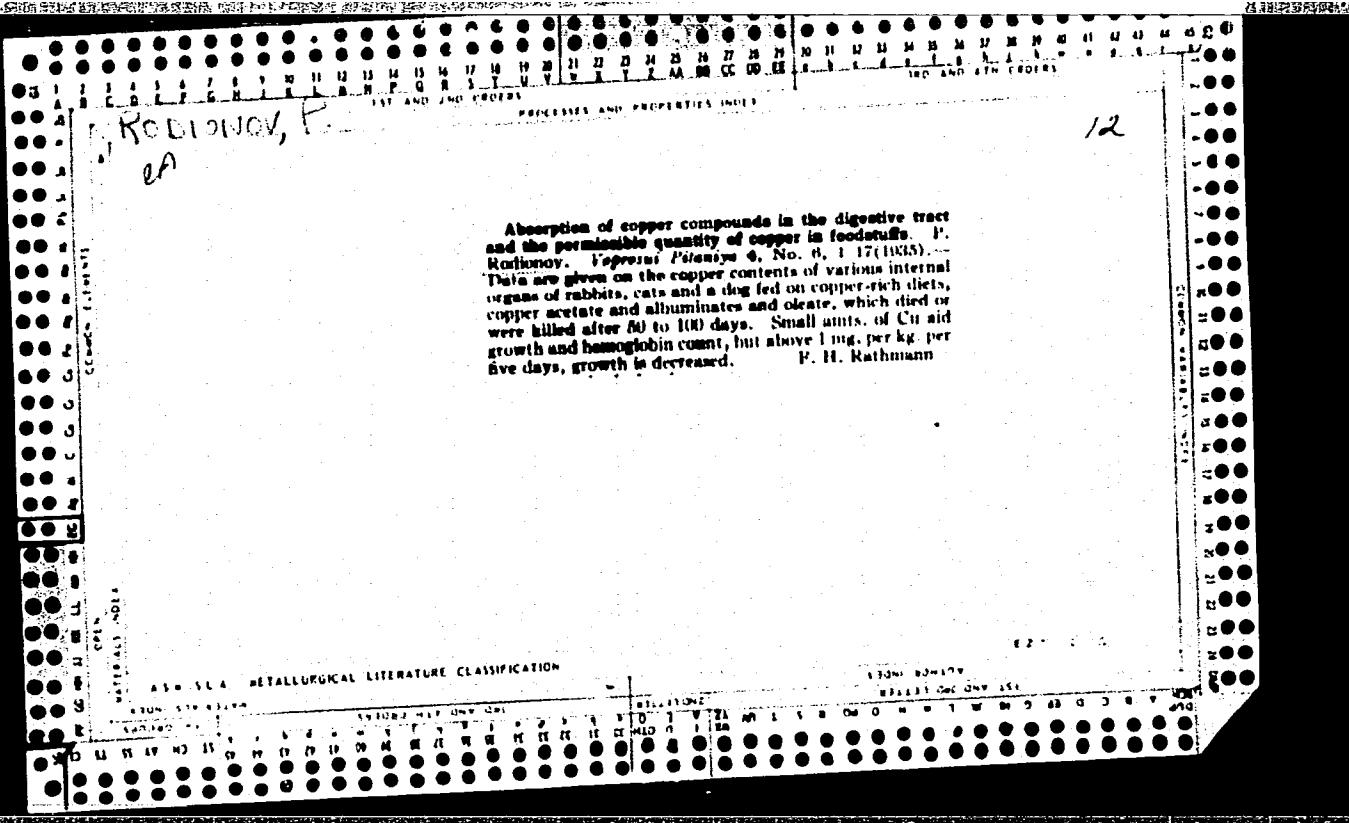
Determining the optimum consumption of pipes for the gas systems  
of residential buildings. 'Ispol'. gaza v nar. khoz. no.2:  
146-154 '63. (MIRA 18:9)

1. Laboratoriya tekhniko-ekonomiceskikh izyskaniy Saratovskogo  
gosudarstvennogo nauchno-issledovatel'skogo i proyektного  
instituta po ispol'zovaniyu gaza v narodnom khozyaystve.

RODIONOV, O.M., inzh.

New method for electrical shearing of sheep. Mekh. sil'. hosp. 9  
no. 7:22-23 J1 '58. (MIRA 11:8)

(Sheep shearing)



RODIONOV, O.M., inzh -mekhanizator

Circular or "herringbone" arrangement for milking parlors.  
Mekh. sil'. hosp 12 no.11:22-23 N '61. (MIRA 14:11)  
(Milking machines)

RODIONOV, O.M., inzh.

Preparing dairy farms for the transition to machine milking.  
Mekh. sil'. hosp. 11 no.7:25 Jl '60. (MIRA 13:10)  
(Milking machines)

RODIONOV, O.M., inzh.

New milking unit. Mekh. sil'. hosp. ll no.10:25-26 0 '60.  
(MIRA 13:6)  
(Milking machines)

RODIONOV, O.N., inzh.

The MKhU-12 refrigerating unit. Mashinostroenie no.2:100-101  
(MIRA 15:4)  
Mr-Ap '62.

1. Ukrsel'khoztekhnika.  
(Refrigeration and refrigerating machinery)

RODIONOV, P. A.

185T36

USSR/Engineering - Welding

Mar 51

"Escape of Acetylene Into Atmosphere From Acetylene Plants," P. A. Rodionov, Engr

"Avtogen Delo" No 3, pp 27, 28

Pits for carbide silt from acetylene generators require proper attention, otherwise they become source for contaminating atm with acetylene. Suggests preventive measures: evacuation of pits with aid of sanitary cistern-automobiles, especially modified for this purpose; and covering pits with concrete plates, permitting escape of acetylene into higher layers of atm through exhaust pipes.

185T36

RODIONOV, Petr Aleksandrovich; TOLMACHEV, A., red.; TROYANOVSKAYA, N.,  
tekhn. red.

[Political propaganda during the night shift] Politicheskaya  
agitatsiya v nochnoi smene. Moskva, Gos.izd-vo polit.lit-ry,  
1960. 46 p. (Bibliotekha agitatora, no.9). (MIRA 13:5)  
(Stalino Province--Coal mines and mining)  
(Communist Party of the Soviet Union--Party work)

The production of acetylene with the recovery of dry calcium hydroxide from the by-products. P. A. Kudinova, A. L. Vrismann and P. A. Ivanov. *Autogenerator Delo* 8, No. 11, 20-30 (1937); *Chem. Zentral.* 1938, II, 2840. Two modifications of an improved app. for the production of Ca(OH)<sub>2</sub> are described. Advantages over other equipment for production of the gas are greater capacity and ease of handling, decreased space requirements, and the possibility of simultaneous recovery of the Ca(OH)<sub>2</sub>. M. G. M.

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## ABU-SLA METALLURGICAL LITERATURE CLASSIFICATION

~~134-804104~~

**APPROVED FOR RELEASE: Tuesday, August 01, 2000** CIA-RDP86-00513R0014450

ROD'YAN, P. A., KOMOLOV, V. I.

Using the radio wave transmission and dipping method in prospecting for deep pyrite bodies of the Urals in the area of Berenzels. Izv. vys. ucheb. zav., geol. i razv. B no.99135-140 S '65.  
(MIRA 18;9)

i. Institut geofiziki Uralskogo filiala AN SSSR.

RODIONOV, P.F.; KRASNOBAYEVA, A.G.

Basic electric characteristics of the structure of pyrite deposits  
in the Urals. Trudy Inst.geofiz.UFAN SSSR no.3:155-168 '65.  
(MIRA 18:8)

RODIONOV, P.F.

Electric structure of the Ozernoje pyrite deposit. Trudy Inst.geofiz.  
UFAN SSSR no.3:175-182 '65. (MIRA 18:8)

KOKONENKO, I.I.; LEGA, G.A.; RODIONOV, P.F.

Practice in resistance logging in a pyrite deposit of the Southern Urals. Trudy Inst.geofiz.UFAN SSSR no.3:187-194 '65. (MIRA 18:8)

S/874/62/000/002/015/019  
D218/D308

AUTHORS: Kononenko, I.I. and Rodionov, P.F.

TITLE: Field of a point source of current placed at a depth in a two layer medium with a vertical separation boundary

SOURCE: Akademiya nauk SSSR. Ural'skiy filial. Institut geofiziki. Trudy. no. 2, 1962. Geofizicheskiy sbornik, no. 3, 243-253

TEXT: The problem considered is illustrated in Fig. 1 where the two media have resistivities  $\rho_1$  and  $\rho_2$  and the point source of current is located at the origin 0. Formulas are given for the potential and the gradient of the potential at the surface and these are then used in numerical calculations with  $\rho_1 = 1$ ,  $1/2\pi = 1$  and  $z_0 = 1$  and different values of  $k = (\rho_2 - \rho_1)/(\rho_2 + \rho_1)$  and  $a$ . Results of the calculations show that the field in this type of medium differs appreciably from the field in the case of an isotropic medium. The results have been found to be useful in the

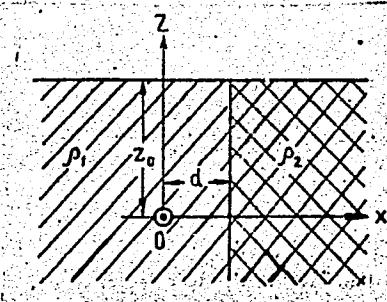
Card 1/2

S/874/62/000/002/015/019  
D218/D308

Field of a point source ...

interpretation of the geoelectric structure in the Ural'. There are 8 figures.

Fig. 1



Card 2/2

S/874/62/000/002/016/019  
D218/D508

AUTHORS: Kononenko, I.I. and Rodionov, P.F.

TITLE: The field of a point source located at a depth in  
the presence of a vertical plate

SOURCE: Akademiya nauk SSSR. Ural'skiy filial. Institut geo-  
fiziki. Trudy. no. 2, 1962. Geofizicheskiy sbornik,  
no. 3, 255-266

TEXT: The problem considered is illustrated in Fig. 1 in  
which the medium in the lower half-space consists of three vertical  
layers with resistivities  $\rho_1$ ,  $\rho_2$  and  $\rho_3$ . The point source, which  
is supplied with a constant current  $I$ , is placed at the origin 0.  
Numerical calculations were carried out of the potential and the pot-  
ential gradient for  $\rho_1 = \rho_3 = 1$ ,  $I/2\pi = 1$   $z_0 = 1$  and  $h = 0.25 z_0$ .  
The calculations were based on series expansions for these quantities  
which are reproduced in this paper. A substantial number of curves  
illustrating the numerical calculations is reproduced. It was found  
that the presence of the vertical plate has a considerable effect on

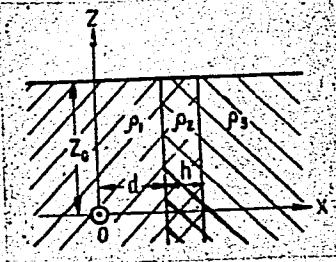
Card 1/2

S/874/62/000/002/016/019  
D218/D308

The field of a point source ...

the distribution of the potential due to the point source. In the medium 1 in which the source is placed, the potential is reduced or increased depending on whether the coefficient  $k_{12} = (\rho_2 - \rho_1)/(\rho_2 + \rho_1)$  is smaller or larger than zero. In the medium 3, the field is always reduced by the presence of a plate. Where  $k_{12} = \pm 1$  the potential in medium 3 is zero. Points with maximum values of the potential (zero gradient) are always displaced in the direction of the X-axis by the introduction of the intermediate plate. In the Y direction the point with the maximum potential is not displaced. An example of the application of these results to the interpretation of field measurements is given. There are 8 figures.

Fig. 1



Card 2/2

S/874/62/000/002/017/019  
D218/D308

AUTHOR:

Rodionov, P.F.

TITLE:

Interpretation of anomalous field above charged  
elongated conductors

SOURCE:

Akademiya nauk SSSR. Ural'skiy filial. Institut geo-  
fiziki. Trudy. no. 2, 1962, Geofizicheskiy sbornik,  
no. 3, 275-280

TEXT: The author considers a charged, horizontal, infinite,  
elliptical cylinder with semi-axes  $b$  and  $c$  ( $b > c$ ) lying in an iso-  
tropic half-space as shown in Fig. 1. The expression for the poten-  
tial at the surface is

$$U = (\rho i / 4\pi) \int_{-\infty}^{\infty} [(b^2 + \lambda)(c^2 + \lambda)]^{-\frac{1}{2}} d\lambda$$

where  $\rho$  is the resistivity of the medium,  $i$  is the current leaving  
the cylinder per unit length and  $\lambda$  is the largest root of the equa-  
tion  $x^2/(c^2 + \lambda) + z^2/(b^2 + \lambda) = 1$ . The above relation was used to  
Card 1/3

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D218/D308

Interpretation of anomalous ...

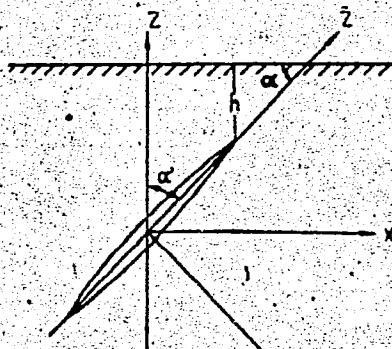
evaluate the values of the potential gradient  $\partial U / \partial x$  for  $b = 1$ ,  $c = 0.05$ ,  $\rho_i / 4\pi = 1$ . Results of these numerical calculations show that when  $\alpha = 0$ , the potential-gradient curve intersects the z-axis above the projection of the upper end of the major axis of the cylinder. The two points coincide only when  $\alpha = 90^\circ$ . A characteristic feature of the computed curves is the asymmetry of the gradient for  $0 < \alpha < 90^\circ$ . The asymmetry is particularly large for  $\alpha = 15-16^\circ$ . General nomograms are given which may be used in the interpretation of potential-gradient curves. These nomograms give  $\partial U / \partial x$  as functions of  $x_0$  for different values of  $\alpha$  below and above the surface of the half-space, and at different depths of the cylinder below the surface. There are 5 figures.

Card 2/3

Interpretation of anomalous ...

S/874/62/000/002/017/019  
D218/D308

Fig. 1



Card 3/3

RODIONOV, P.F.

Comparative characteristics of combined and differential profiling  
method. Trudy Gor.geol.inst.UFAN SSSR no.6:141-155 '60.  
(MIRA 14:10)

(Ural Mountains—Prospecting—Geophysical methods)  
(Ural Mountains—Pyrites)

RODIONOV, P.F.

SOV/ 49-58-11-10/18 :

AUTHORS: Dedyshcheva, T. V., Pigulevskaya, V. B. and Rodionov, P.F.

TITLE: Adaptability of Methods of Electro-Prospecting for Pyrite  
Formations Occurring in Metamorphic

Rocks and Slates of the Urals(O primenimosti  
kompensatsionnykh metodov elektrorazvedki dlya poiskov  
kolchedannykh mestorozhdeniy Urala, zalegayushchikh  
sredi metamorficheskikh porod i slantsev)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya,  
1958, Nr 11, pp 1374-1382 (USSR)

ABSTRACT: Comparative analysis of the materials obtained from the  
electro-prospecting carried out in the Central Ural  
resulted in some important conclusions. One of them is  
that owing to the varying thickness of deposits, the  
compensation method cannot practically define a uniform  
field. The complex character of the field obtained did  
not allow tracing the origin of the irregularities in the  
ore distribution, even in the shallow deposits in such  
localities as Yur'yev, Slonov, Shaytan. Also, due to the  
complexity of the field, it was difficult to establish the  
right spread of the cable, therefore, often some parts  
of the surveying zone were omitted (Figs.3-6). It was

Card 1/3

SOV/ 49-58-11-10/18

Acceptability of Methods of Electro-Prospecting for Pyrite Formations  
Occurring in Metamorphic Rocks and Slates of the

Ural

observed that the various factors, other than those for the ores, were affecting the measurements carried out by the compensation method over the metamorphic rocks and slates. In addition, due to the small distance between the electrodes, it was difficult to determine the area of increasing or decreasing electro-conductivity, even for shallow layers of less than 50 m. Therefore, if an indirect relation between the ore layers to the shallow deposits is required, the method of compensation and its variation, the method of vertical field, cannot be employed even if the irregularities of conductivity are checked by means of the isolines (Figs.1 and 2) through holes drilled deep into the ore layers (Pianko-Lomov and Teplov). In the case of the disturbed field where the layers of metamorphic rocks and slates affect the electro-conductivity, it is impossible to determine the irregularities of small intensity (range of 10%) related to the ore layers below 50-100 m. It can be said then that the limitations of the compensation method in searching for deep ore layers, described by Ovchinnikov (Refs.1-6)

Card 2/3

SOV/ 49-58-11-10/18

Adaptability of Methods of Electro-Prospecting for Pyrite Formations  
occurring in Metamorphic Rocks and Slates of the  
Ural

for the Karabash region, can be extended to all areas of the Central Ural. It should be added that this applies also to the shallow (less than 50 m) formations where the metamorphic rocks and slates are present. As a result of the investigations, it is advisable to abandon the methods of compensation and vertical field in electro-surveying when searching for the pyrite formations deposited in metamorphic rocks and slates.

There are 6 figures and 6 references, all of which are Soviet.

ASSOCIATIONS: Ural'skiy filial AN SSSR, Gorno-geologicheskiy institut (Ural Branch of the Ac.Sc. USSR, Geological Institute) and Soyuznyy Ural'skiy geofizicheskiy trest Bazhenovskaya geofizicheskaya ekspeditsiya (All-Union Ural Geophysics Trust, Bazhenov Geophysics Expedition)

SUBMITTED: October 4, 1957

Card 3/3

RODIONOV, P.F.

Experiment in determining the azimuth and angle of incidence of  
wall rock layers and ore bodies in the Ural pyrite deposits on the  
basis of electric prospecting data. Izv. Sib. otd. AN SSSR no.1:  
33-43 '58. (MIRA 11:8)

1. Ural'skiy filial AN SSSR.  
(Ural Mountains--Prospecting--Geophysical methods)

KODIUNOV, P.I.  
3(6,10); 9(6)

PHASE I BOOK EXPLOITATION

SOV/1924

Akademiya nauk SSSR. Ural'skiy filial. Gorno-geologicheskiy institut.

Geofizicheskiy sbornik, no. 2. (Collected Papers on Geophysics, Nr. 2.)  
Sverdlovsk, 1957. 207 p. Issued also as Its Trudy, vyp. 30  
Errata slip inserted. 2,400 copies printed.

Resp. Ed.: Yu.P. Bulashevich, Doctor of Physical and Mathematical  
Sciences; Ed.: I.M. Demin; Tech. Ed.: L.A. Izmodenova.

PURPOSE: This collection of articles is intended for field geo-  
physicists and exploration party leaders.

COVERAGE: These articles discuss many new techniques and some theore-  
tical considerations involved in gravitational, magnetic, seismic,  
electrical and gamma radiation exploration methods. In 4 articles  
V.N. Ponomarev discusses various aspects of magnetometry;  
N.I. Khalevin - the study of elastic wave propagation; and  
G.M. Voskoboinikov - gamma radiation. Extensive bibliographies  
accompany each articles.

Card 1/5

Collected Papers (Cont.)

SOV/1924

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SOV/1924

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SOV/1924

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Card 4/5

Collected Papers (Cont.)

SOV/192<sup>4</sup>

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Magnitogorskiy Granitoid Massif With the Eruptive Rocks of  
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Timofeyev, A.N. Graphic Interpretation of Geophysical  
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AVAILABLE: Library of Congress

Card 5/5

MM/ad  
6-15-59

DEDYSHEVA, T.V.; PIGULEVSKAYA, V.B.; RODIONOV, P.F.

Applicability of compensation methods in electric prospecting  
for pyrite deposits occurring in metamorphic rocks and schists  
of the Urals. Izv.AN SSSR.Ser.geofiz. no.11:1374-1382 N '58.  
(MIRA 11:12)

1. Ural'skiy filial AN SSSR, Gorno-geologicheskiy institut i  
Soyuznyy Ural'skiy geofizicheskiy trest, Bazhenovskaya  
geofizicheskaya ekspeditsiya.  
(Prospecting--Geophysical methods) (Ural Mountains--Pyrites)

SOV/132-59-4-8/17

AUTHOR: Dedyshcheva, T.V. and Rodionov, P.F.

TITLE: On the Adaptability of Compensatory Methods of Electric Geophysical Exploration for Prospecting for Fyrite Deposits.

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 4, pp 29-34 (USSR)

ABSTRACT: The authors discuss the expediency of the use of compensatory methods of electric geophysical exploration of pyrite deposits in the Krasnouralsk region. The region was explored from 1951 to 1957 by these methods. Eighteen anomalies were checked by drilling and in only one case was a deposit found in the valley of the Ayva river. Summing up to the results of the geophysical survey of the region, the authors found that the compensatory methods are not more efficient than other geophysical methods. The metamorphic slates create an intensive field disturbance interpreted on the plotter as a con-

Card 1/2

SOV/132-59-4-8/17

On the Adaptability of Compensatory Methods of Electric Geo-physical Exploration for Prospecting for Pyrite Deposits.

ductivity anomaly. The authors compare the results of the survey by different geophysical methods in various parts of the Krasnouralsk region, and came to the conclusion that no presently existing geo-physical methods can locate deeply-situated deposits enclosed in metamorphic rock and slates. In specific conditions of the region, the compensatory methods or methods of vertical fields cannot be adapted for prospecting operations. The following scientists are mentioned in this article: G.P. Sakovtsev, A.A. Redozubov, K.A. Shantsyn, D.M. Karpushin, A.S. Polyakov and N.P. Grigor'yeva. There are 5 sets of diagrams and 5 Soviet references.

ASSOCIATION: Ural'skoye Geolubravleniye (The Urals Geological Administration (Dedysheva) and UFAN (Rodionov)

Card 2/2

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Use of high-frequency magnetic fields in prospecting for  
sulfate deposits in the Urals. Trudy Gor.-geol. inst. no.30:  
3-23 '57. (MIRA 11:7)  
(Prospecting--Geophysical methods) (Ural Mountain region--Sulfates)

RODIONOV, P.F.

Using the method of a nongrounded circuit in prospecting for  
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(Ural Mountain region--Pyrites) (Prospecting--Geophysical methods)

RODICHOV, P. F.

Petropavlovskii, S. A., and Redionov, P. F. "A Brief Geologic-Geophysical Characteristic of the Surroundings of the Belorechensk Pyrite Deposit in the Urals." Tsvetnye Metally, Moscow-Leningrad-Sverdlovsk, No. 4, 1938, pp. 9-15.

RODIONOV, P. F.

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Polyesterification of malonic acid esters. Izv. AN SSSR. Ser. khim.  
(MIRA 18:10)  
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v Chkalovskoy Oblasti (The Principal Helminths of Farm Animals and the Results  
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U-4258

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P. RODIONOV, author of Bor'ba s koktsidiozom krupnogo rogatogo skota i ovets ("Control of Coccidiosis of Cattle and Sheep") Chkalov, Chkal. izd., 1951. 4 pages. (Chkal. obl. Administration of Agriculture. Administration of Agricultural Propaganda. Veterinary Division). Unbound. 1,500 copies.

SO: [REDACTED] Report U-4502; 28 August 1953. [REDACTED]

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So: Veterinariya; 30; (3); March 1953; Uncl.

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SO: Veterinariya; 30; (1); January 1953; Uncl. TABCON

ZOTIKOV, Yu.M.; ROZENTSVEYG, P.E.; RODIONOV, P.T.

Universal pharmaceutical apparatus, UAA-1. Apt. delo 12  
no.4:53-58 Jl-Ag '63. (MIRA 17:2)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

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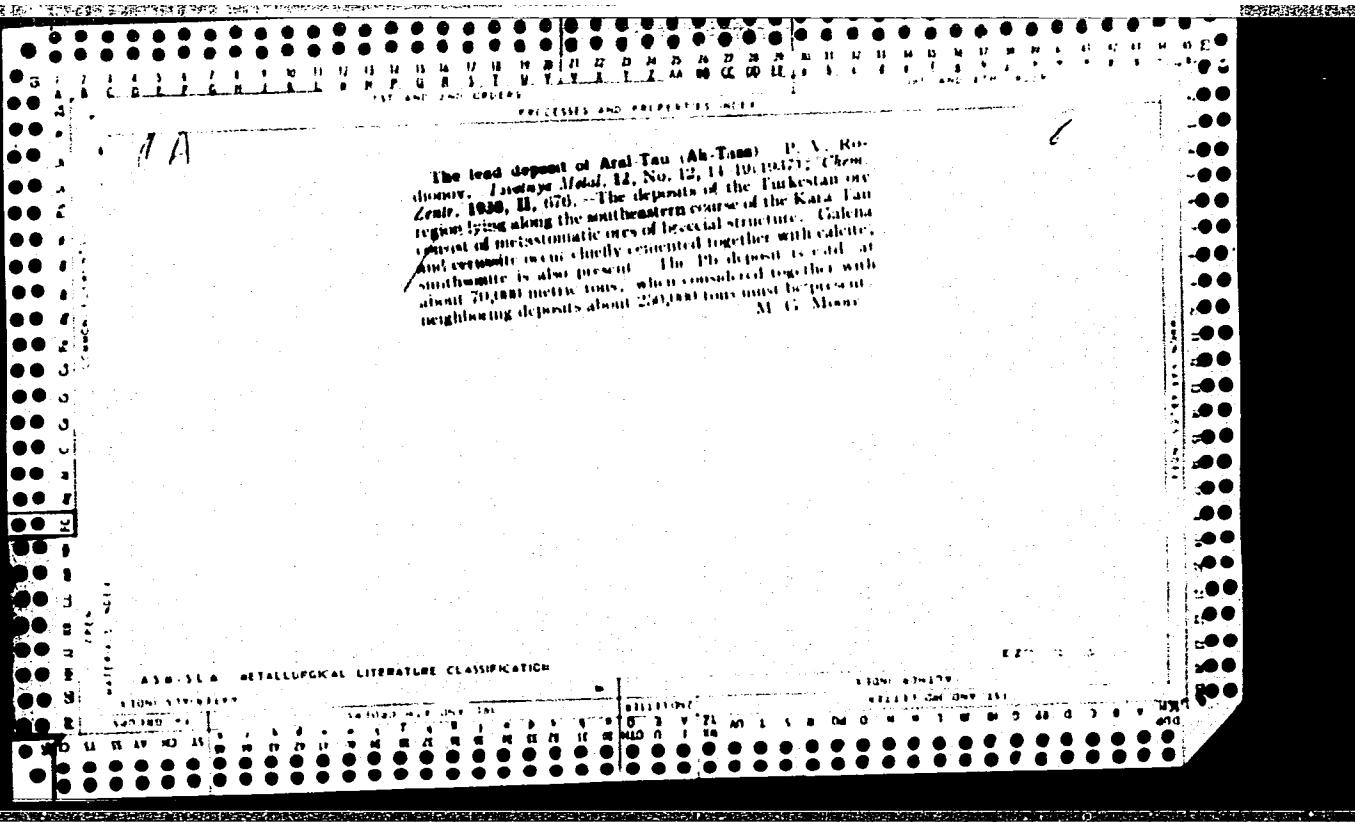
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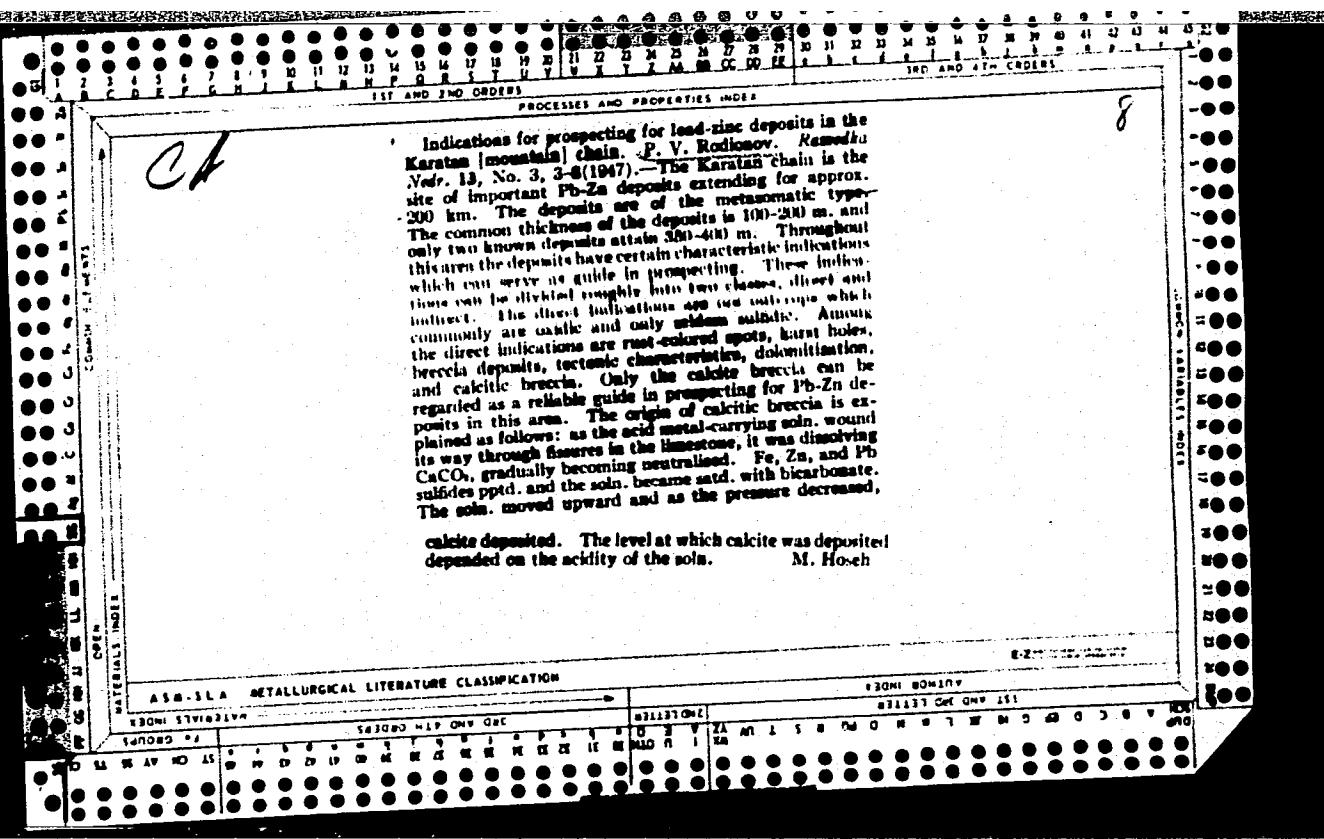
1. Leningradskiy khimiko-farmatsevticheskiy institut.  
(EXTRACTION APPARATUS)

MATSIYEVSKIY, G.A.; RODIONOV, P.T.

Continuous counterflow extractor. Med.prom. 13 no.10:38-40 0 '59.  
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1. Leningradskiy khimiko-farmatsevticheskiy institut.  
(EXTRACTION APPARATUS)





RODIONOV, Petr Vladimirovich, professor, redaktor; GITSHTEYN, A.D.,  
tekhnicheskiy redaktor.

[Prescription manual] Retsepturnyi spravochnik. Kiev. Gos.med.  
izd-vo USSR, 1955. 244 p. (MLRA 8:9)  
(Medicine--Formulas, receipts, prescriptions)

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"on the Problem of the Pharmacology of Tertiary di (beta-chloreethyl) Amines and the Connection Between Their Chemical Structure and Their Effect on the Organism," a paper presented at the Fifth Conference of the Ukrainian Society of Physiologists, Biochemists, and Pharmacologists," 28 May-2 June, 1956, Khar'kov.

"Different representatives of this group of compounds possess pharmacological properties which are common to all of them. These are their effect on the central and automatic nervous systems, on the blood, and on cell division. These effects are the result of the disturbance of the structure and functions of the nucleoproteids, desoxyribonucleic acid in particular. Their toxic properties are particularly exhibited by the methyl di-(beta-chloreethyl) amine. Toxicity is considerably diminished in the homologues, particularly on replacement of aromatic radicals. Their effect on the blood, however, is retained, which makes them especially suitable for application. The author pointed to the importance of the hydrolysis of the compounds and indicated that the hydrolysis of tertiary di (beta-chloreethyl) amines is accompanied by the formation of intermediary reactive products of the ethylene amide type which are capable of alkylating action."

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[Clinical pharmacology] Klinicheskaya farmakologiya. Pod red.  
P.V.Rodionova. Izd. 2, perer. i dop. Kiev, Gos.med.izd-vo  
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RODIONOV, Petr Vladimirovich, prof., red.; GITSHTEYN, A.D., tekhn.red.

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75 p.

(MIRA 12:10)

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LUGANSKIY, N.I., prof., red.; PETRUN'KIN, V.Ye., kand.khim.nauk, red.;  
RODIONOV, P.V., prof., red.; CHERKES, A.I., prof., red.;  
LOKHMATYY, Yu.G., tekhnicheskij red.

[Thiol compounds in medicine; proceedings of a conference at  
Kiev, December 16-19, 1957] Tiolovye soedineniya v meditsine;  
trudy nauchnoi konferentsii, Kiev, 16-19 dekabria 1957 goda.  
Kiev, Gos.med.izd-vo USSR, 1959. 286 p. (MIRA 13:4)

1. Ukrainskiy nauchno-issledovatel'skiy sanitarno-khimicheskiy  
institut. 2. Chlen-korrespondent AMN SSSR (for Cherkes).  
(THIOLS--THERAPEUTIC USE)

RODIONOV, P.V., prof., red.; BYKOV, N.M., tekhn. red.

[Prescription reference book] Retsepturnyi spravochnik. Izd.3.,  
ispr. i dop. Kiev, Gos. med. izd-vo USSR, 1961. 476 p.  
(MIRA 16:1)

(MEDICINE--FORMULAE, RECEIPTS, PRESCRIPTIONS)

RODIONOV, P.V., prof.; BAZHENOV, S.V., prof.; SLAST'ON, M.I., dotsent  
(Kiev)

"Medicinal plants and their use by the people" by M.A. Nosal',  
I.M. Nosal'. Reviewed by P.V. Rodionov, S.V. Bazhenov,  
M.I. Slast'on. Vrach. delo no. 3:147-148 Mr '61. (MIRA 14:4)  
(BOTANY, MEDICAL) (NOSAL', M.A.) (NOSAL', I.M.)

NOVIK, Isaak Osipovich, prof.; MARCHENKO, Aleksey Ivanovich, dots.;  
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[Prescription manual for the stomatologist] Retsepturnyi  
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PETROVSKIY, G.A. [deceased]; PANASHCHENKO, A.D.; RODIONOV, P.V., prof.  
red.

[Clinical pharmacology] Klinicheskaiia farmakologiiia. Izd.3.,  
perer. i dop. Kiev, Zdorov'ia, 1965. 527 p. (MIRA 18:7)

SPITSYN, Vikt.I., akademik; KOLLI, I.D.; RODIONOV, R.A.; SEVAST'YANOVA, T.G.

Synthesis and study of the reactions involved in disproportionation  
of some trifluoroborazane derivatives. Dokl. AN SSSR 16C no.5:1101-  
1103 F '65. (MIFR 18:2)

1. Moskovskiy gosudarstvennyy universitet i Institut fizicheskoy  
khimii AN SSSR.

SPITSYN, Vikt.I., akademik; KOL'LI, I.D.; RODIONOV, R.A.;  
SEVAST'YANOVA, T.G.

Conductance of aqueous and nonaqueous solutions of trifluoroborazane. Dokl. AN SSSR 165 no.2:341-343 N '65.  
(MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet i Institut fizicheskoy  
khimii AN SSSR.

L 42939-66 EWT(n)/EWF(j)/T WW/JWD/RM

ACC NR: AP6013283 (A) SOURCE CODE: UR/0413/66/000/008/0079/0079

INVENTOR: Spitsyn, V. I.; Kolli, I. D.; Rodionov, R. A.

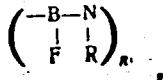
ORG: none

TITLE: Preparation of organoelemental polymers, Class 39, No. 180799

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 79

TOPIC TAGS: polymer, organoelemental polymer

ABSTRACT: This Author Certificate introduces a method of preparing an organoelemental polymer of the general formula



where R—hydrogen, alkyl C<sub>1</sub>—C<sub>10</sub>, aryl, cycloalkyl or heterocyclic radical, and n is the degree of polymerization. By this method, BF<sub>2</sub>NR<sub>2</sub> or (BFNR)<sub>3</sub> monomers are heated under vacuum at 150--290 C in the presence of polymerization initiators, such as

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peroxides, boron trifluoride complexes, borazenes, and metal oxides or salts.  
[Translation] [LD]

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Card 2/2 MLP

L 32473-65 EWT(m)/EPA(s)-2/EPF(c)/T/EWP(j)/EPR/EWA(c) Pe-4/Pr-4/Ps-4/Pt-10  
RPL WW/RM

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AUTHOR: Spitsyn, Vikt. I. (Academician, AN SSSR); Kolli, I. D.; Rodionov, R. A.;  
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TITLE: Synthesis and disproportionation reactions of trifluoroborazane derivatives

SOURCE: AN SSSR. Doklady, v. 160, no. 5, 1965, 1101-1103

TOPIC TAGS: borazane, trifluoroborazane, trifluoroborazane derivative, nitrogen substituted derivative, boron nitrogen polymer, synthesis, disproportionation reaction, borazene, difluoroborazene derivative

ABSTRACT: A method was developed for synthesizing and purifying methyl and ethyl derivatives of trifluoroborazane,  $\text{BF}_3\text{NH}_3$ , and the thermal disproportionation of these derivatives was studied. The organic derivatives of  $\text{BF}_3\text{NH}_3$  are especially interesting as potential starting materials for preparing thermally stable inorganic polymers with a B-N bond in the main chain. The newly developed method of synthesis was simpler and more reliable than those described in the literature. Trifluoroborazane and its N-methyl and ethyl substituted derivatives were prepared with 82-97% yields by reacting boron trifluoride-diethyl ether in an ethyl ether solution at 5-10C

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with a corresponding alkyl amine. The products were purified by fractional distillation, mostly in a vacuum, without decomposition. Boiling and melting points of the purified compounds were determined. The melting point of  $\text{BF}_3\text{NH}_3$  was found to be 152-153°C, a value which disagreed with data in the literature. On heating,  $\text{BF}_3\text{NH}_3$  decomposes into ammonium fluoroborate and boron nitride. However, disproportionation of the N-ethyl substituted derivatives of  $\text{BF}_3\text{NH}_3$  led to N-ethyl substituted difluoroborazenes. This fact indirectly confirmed the assumption that  $\text{BF}_3\text{NH}_3$  disproportionation occurred in three steps, involving the borazene mechanism, although the intermediate products  $\text{BF}_2\text{NH}_2$  and  $(\text{BFNH})_n$  were not identified. The disproportionation reaction of N,N-diethyl-B,B-trifluoroborazane,  $\text{BF}_3\text{NH}(\text{C}_2\text{H}_5)_2$ , at 240-320°C, in the presence of certain metals (Al, Mg, Zn,) or without metals, produced N,N-diethyl-B,B-difluoroborazene,  $\text{BF}_2\text{N}(\text{C}_2\text{H}_5)_2$ , in various yields. Other reaction products were either N-diethylammonium tetrafluoroborate, or hydrogen, or both, depending on conditions. In the presence of sodium, disproportionation yielded diborane, resulting from a break of the B-N bond. Orig. art. has: 3 tables and 5 formulas. [JK]

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